## Recent Scientific and Technical Books.

*Volumes marked with an asterisk have been received at "NATURE" Office.*

### Mathematics: Mechanics: Physics

**Audubert, R.; Massacré, Ch. de; Buffat, A.; Durand, L., et Foex, G.,** Rédigées par. Données numériques d'électricité, magnétisme et électrochimie. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–1924.) Demy 4to. Pp. xii + 174. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 90 francs.*

**Broglie, Maurice de, et Broglie, Louis de.** Introduction à la physique des rayons X et gamma. Roy. 8vo. Pp. v + 201 + 11 planches. (Paris: Gauthier-Villars et Cie, 1928.) 50 francs.*

**Brüninghaus, L.** Données numériques de spectroscopie: spectres d'émission, phénomène de Zeeman, spectres d'absorption. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–1924.) Demy 4to. Pp. viii + 363. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 180 francs.*

**Burnside, William Snow,** The late, and **Panton, Arthur W.** The Theory of Equations: with an Introduction to the Theory of Binary Algebraic Forms. Edited by M. W. J. Fry. (Dublin University Press Series.) Vol. 2. Seventh edition. 8vo. (London, New York and Toronto: Longmans, Green and Co., Ltd., 1928.) 12*s*. 6*d*. net.

**Cajori, Florian.** A History of Mathematical Notations. Vol. 1: Notations in Elementary Mathematics. Med. 8vo. Pp. xvi + 451. (Chicago and London: The Open Court Publishing Co., 1928.) 25*s*. net.*

**Cassinis, G.** Calcoli numerici, grafici e meccanici. 8vo. Pp. xx + 672. (Pisa: Mariotti Pacini, 1928.) 100 lire.

**Estève, R., et Mitault, H.** Algèbre et trigonométrie. 2 vols. Med. 8vo. Tome 1: Calcul algébrique, fonctions et inéquations. Pp. 552. 70 francs. Tome 2: Fonctions, dérivées et applications, révolution des triangles. Pp. 314. 40 francs. (Paris: Gauthier-Villars et Cie, 1928.)

**Fawdry, R. C., and Beaven, H. C.** Elementary Algebra for Schools. (Black's Mathematical Series.) Part 1. Cr. 8vo. Pp. viii + 221 + xxxvi. (London: A. and C. Black, Ltd., 1929.) 3*s*. 6*d*.; without Answers, 3*s*.*

**Fraenkel, Adolf.** Einleitung in die Mengenlehre. (Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen mit besonderer Berücksichtigung der Anwendungsgebiete, herausgegeben von R. Courant, Band 9.) Dritte umgearbeitete und stark erweiterte Auflage. Roy. 8vo. Pp. xiv + 424. (Berlin: Julius Springer, 1928.) 22.60 gold marks.*

**Haas, Arthur.** Wave Mechanics and the New Quantum Theory. Translated from the German edition ("Materiewellen und Quantenmechanik") by L. W. Codd. Demy 8vo. Pp. xviii + 124. (London: Constable and Co., Ltd., 1928.) 7*s*. 6*d*. net.*

**Hahn, Hermann.** Handbuch für physikalische Schülerübungen. Dritte, verbesserte und umgearbeitete Auflage. Roy. 8vo. Pp. xvi + 453. (Berlin: Julius Springer, 1929.) 27 gold marks.*

**Herold, Stanley C.** Analytical Principles of the Production of Oil, Gas and Water from Wells. With a Foreword by Cyrus F. Tolman and a Final Summary by Ernest K. Parks. Sup. Roy. 8vo. Pp. xix + 659. (Stanford University, Calif.: Stanford University Press, 1928.) 7.50 dollars.

**Hölder, Otto.** Die Arithmetik in strenger Begründung. Zweite Auflage. Demy 8vo. Pp. v + 73. (Berlin; Julius Springer, 1929.) 3.60 gold marks.*

**Houghton, H. W.** Rational Arithmetic, Advanced. Demy 8vo. Pp. 164. (London: Gregg Publishing Co., Ltd., 1928.) 2*s*. 6*d*.

**Joliot-Curie, Mme J., et Auger, P.,** Rédigées par. Données numériques de radioactivité: ionisation, électronique, rayons X. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–24.) Demy 4to. Pp. vii + 28. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 36 francs.*

**Lewitt, E. H.** Definitions and Formulae for Students (Applied Mechanics). Demy 16mo. Pp. iv + 36. (London: Sir Isaac Pitman and Sons, Ltd., 1929.) 6*d*. net.*

**Sevin, Émile.** Le temps absolu et l'espace à quatre dimensions (la gravitation, la masse, la lumière). Roy. 8vo. Pp. iv + 127. (Paris: Albert Blanchard, 1928.) 22 francs.*

**Shearcroft, W. F. F., and Lewis, C. N.** A Revision Course in Magnetism and Electricity (to Matriculation Standard). Cr. 8vo. Pp. viii + 109. (London: Sir Isaac Pitman and Sons, Ltd., 1929.) 2*s*. 6*d*.*

**Stead, G.** Elementary Physics: for Medical, First Year University Science Students, and Schools. Third edition. Demy 8vo. Pp. 470. (London: J. and A. Churchill, 1928.) 10*s*. 6*d*. net.

**Swett, George W.** Construction of Alignment Charts. Demy 8vo. Pp. 98. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 10*s*. net.

**Toft, Louis,** Compiled by. Definitions and Formulae for Students (Practical Mathematics.) Demy 16mo. Pp. iv + 28. (London: Sir Isaac Pitman and Sons, Ltd., 1929.) 6*d*. net.*

**Walther, Alwin.** Einführung in die mathematische Behandlung naturwissenschaftlicher Fragen. Teil 1: Funktion und graphische Darstellung, Differential- und Integralrechnung. 4to. Pp. viii + 220. (Berlin: Julius Springer, 1928.) 8.60 gold marks.

**Wien, W., und Harms, F.,** Herausgegeben von. Handbuch der Experimentalphysik. Unter Mitarbeit von H. Lenz. Band 7, Teil 2: Strukturbestimmung mit Röntgeninterferenz, von H. Ott; Gittertheorie der festen Körper, von K. F. Herzfeld. Gl. 4to. Pp. xiii + 433. (Leipzig: Akademische Verlagsgesellschaft m.b.H., 1928.) *

**Wilkins, Harold T.** Marvels of Modern Mechanics: the Mastery of Land, Sea and Air. Demy 8vo. Pp. 274. (London: T. Fisher Unwin (Ernest Benn), Ltd., 1928.) 10*s*. 6*d*. net.

### Engineering

**Arnold, Conrad,** Edited by. The *Practical Engineer* Electrical Pocket Book and Diary for 1929. With Buyers' Guide and Technical Dictionaries in French, Spanish and Russian. Thirtieth year of issue. 18mo. Pp. cxvii + 650. (London: Oxford University Press, 1928.) 2*s*. 6*d*. net; leather, 3*s*. net.

**Ayres, Q. C., and Scoates, D.** Land Drainage and Reclamation. (New York: McGraw-Hill Book Co., Inc.; London: McGraw-Hill Publishing Co., Ltd., 1928.) 20*s*. net.

**Beck, Ernest G.,** Edited by. The *Practical Engineer* Mechanical Pocket Book and Diary for 1929. With Buyers' Guide and Technical Dictionaries in French, Spanish and Russian. Forty-first year of issue. 18mo. Pp. cxxxiii + 592. (London: Oxford University Press, 1928.) 2*s*. 6*d*. net; leather, 3*s*. net.

**Cohen, Louis.** Heaviside's Electrical Circuit Theory. Med. 8vo. Pp. ix + 169. (New York: McGraw-Hill Book Co., Inc.; London: McGraw-Hill Publishing Co., Ltd., 1928.) 12*s*. 6*d*. net.

**Dahl, O. G. C.** Electric Circuits: Theory and Applications. Vol. 1: Short Calculations and Steady-State Theory. Med. 8vo. Pp. x + 390. (New York: McGraw-Hill Book Co., Inc.; London: McGraw-Hill Publishing Co., Ltd., 1928.) 25*s*. net.

**Department of Scientific and Industrial Research:** Engineering Research. Special Report No. 11: Researches on Springs. 5: The Effect of "Nip" on the Mechanical Properties of Laminated Springs. By R. G. Batson and J. Bradley. Roy. 8vo. Pp. vi + 38 + 2 plates. (London: H.M. Stationery Office, 1928.) 1*s*. 3*d*. net.*

**Descroix, L.,** Rédigés par. Art de l'ingénieur et métallurgie: résistance des matériaux et données numériques diverses. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–24.) Demy 4to. Pp. xiv + 169. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 100 francs.*

**Gilbert, J.,** et **Mondon, E.** Traité d'adductions et de distributions d'eau. 2 vols. Roy. 8vo. Pp. viii + 1480 + 8 planches. (Paris: Libr. Dunod, 1928.) 285 francs.

**Giorgi, Giovanni.** Che cos' è l' elettricità? (Collezione Omnia, 8.) Sup. Roy. 16mo. Pp. 136. (Roma: Paolo Cremonese, 1928.) 6.50 lire.*

**Goupillière, Haton de la.** Cours d'exploitation des mines. Quatrième édition, revue et considérablement augmentée par J. de Berc. Tome 1. Roy. 8vo. Pp. viii + 1216. (Paris: Libr. Dunod, 1928.) 189 francs.

**Hardy, A. C.** Motor Shipping: a study of the Diesel-engined Ship in relation to Present-day Shipping. Cr. 4to. Pp. xi + 166. (London: Chapman and Hall, Ltd., 1928.) 15*s.* net.

**Hudson, Ralph G.** Engineering Electricity. Second edition. Cr. 8vo. Pp. 222. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 12*s.* 6*d.* net.

**Hunter, Adam.** Bridge and Structural Engineers' Handbook of General Specifications, Formulae and Data for the Design of Cranes, Bridges, Foundations and Workshop Buildings. Second edition. Demy 8vo. Pp. 354. (London: E. and F. N. Spon, Ltd., 1928.) 21*s.* net.

**Jacob, K. B.** Driving Chains and their Application to Power Transmission. (London: The Association of Engineering and Shipbuilding Draughtsmen, 1928.) 2*s.* net.

**Kemp, Philip,** Compiled by. Definitions and Formulae for Students (Electrical). Demy 16mo. Pp. vii + 37. (London: Sir Isaac Pitman and Sons, Ltd., 1928.) 6*d.* net.*

**Martin, W. D.** Marine Oil Engines: their Construction, Management and Maintenance. Cr. 8vo. Pp. 224. (Glasgow: J. Munro and Co., Ltd., 1928.) 5*s.* 6*d.* net.

**Mesny, R.,** Rédigées par. Données numériques de radioélectricité. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–24.) Demy 4to. Pp. vii + 26. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 30 francs.*

**Morley, Arthur.** Strength of Materials. Seventh edition. 8vo. (London, New York and Toronto: Longmans, Green and Co., Ltd., 1928.) 12*s.* 6*d.* net.

**Reed, Emerson G.** Transformer Construction and Operation. Med. 8vo. Pp. xii + 227. (New York: McGraw-Hill Book Co., Inc.; London: McGraw-Hill Publishing Co., Ltd., 1928.) 15*s.* net.

**Reyner, J. H.** The Book of the Neutrodyne. (*Amateur Wireless* Handbooks.) Cr. 8vo. Pp. xi + 112. (London: Cassell and Co., Ltd., 1928.) 1*s.* 6*d.* net.

**Rimmer, Arnold.** Definitions and Formulae for Students (Heat Engines). Demy 16mo. Pp. iv + 32. (London: Sir Isaac Pitman and Sons, Ltd., 1928.) 6*d.* net.*

**Roberts, F. H.** Shearing Machines for Steelworks. (London: The Association of Engineering and Shipbuilding Draughtsmen, 1928.) 2*s.* net.

**Robinson, Ernest H.** Everyman's Wireless. Cr. 8vo. Pp. viii + 248. (London: Cassell and Co., Ltd., 1928.) 3*s.* 6*d.* net.

**Rogerson, Robert.** Practical Hints on Colliery Power Plant: a Practical Handbook for Colliery Managers, Colliery Mechanical and Electrical Engineers, and all interested in the Selection, Installation and Operation of Power Plant in Mining and other Work. Med. 8vo. Pp. 246. (London: Charles Griffin and Co., Ltd., 1928.) 16*s.* net.

**Rosenberg, E.** Die Gleichstrom-Querfeldmaschine. Pp. 97. (Berlin: Julius Springer, 1928.) 11 gold marks.

**Shepherd, Edward C. M.** Motor Car Mechanism and Management simplified. With a section on Overhauling. Fifth edition, revised. Cr. 8vo. Pp. 186. (London: Crosby Lockwood and Son, 1928.) 2*s.* 6*d.* net.

**Slagg, Charles,** the late, and **Taylor, F. Johnstone.** Water Engineering: an Introductory Treatise on the Subject of Waterworks and their Construction. Demy 8vo. Pp. x + 156. (London: Crosby Lockwood and Son, 1929.) 8*s.* 6*d.* net.*

**Whyatt, H. Gilbert.** Streets, Roads and Pavements; the Materials, Equipment and Methods employed in Construction and Maintenance. (Pitman's Primers.) Second edition. Fcap. 8vo. Pp. 144. (London: Sir Isaac Pitman and Sons, Ltd., 1928.) 2*s.* 6*d.* net.

## Chemistry: Chemical Industry

**Adams, Roger,** and **Johnson, John R.** Elementary Laboratory Experiments in Organic Chemistry. Demy 8vo. Pp. xi + 304. (New York: The Macmillan Co., 1928.) 8*s.**

**Alexander, Jerome,** Collected and edited by. Colloid Chemistry: Theoretical and Applied. By selected International Contributors. Vol. 2: Biology and Medicine. Med. 8vo. Pp. ii + 1029. (New York: The Chemical Catalog Co., Inc., 1928.) 15.50 dollars.*

**Audubert, R.,** et **Quintin, M.,** Rédigées par. Données numériques sur les colloïdes et l'adsorption. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–24.) Demy 4to. Pp. viii + 57. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 50 francs.*

**Badger, W. L.,** and **Baker, E. M.** Inorganic Chemical Technology. (Chemical Engineering Series.) Med. 8vo. Pp. viii + 228. (New York: McGraw-Hill Book Co., Inc.; London: McGraw-Hill Publishing Co., Ltd., 1928.) 12*s.* 6*d.* net.*

**Bauer, K. H.** Chemische Technologie der Fette und Öle. (Pareys Bücherei für chemische Technologie, herausgegeben von F. Hayduck, Band 1.) Roy. 8vo. Pp. 438. (Berlin: Paul Parey, 1928.) 24 gold marks.

**Block, Walter.** Messen und Wägen: ein Lehr- und Handbuch insbesondere für Chemiker. Mit einer Einleitung: Die historische Entwicklung der Messkunde und des Mass- und Gewichtswesens, von Fritz Plato. Pp. 339. (Leipzig: Otto Spamer, 1928.) 25 gold marks.

**Bollenbach, H.,** und **Kieffer, E.** Laboratoriumsbuch für die Tonindustrie. Zweite Auflage. Pp. 96. (Halle a. S.: Wilhelm Knapp, 1929.) 5.40 gold marks.

**Clark, W.,** Rédigées par. Données numériques de photographie. (Tables annuelles de constantes et données numériques: Extrait du Vol. 6, années 1923–24.) Demy 4to. Pp. x + 36. (Paris: Gauthier-Villars et Cie; New York: McGraw-Hill Book Co., Inc., 1928.) 36 francs.*

**Cornog, Jacob,** and **Vosburgh, Warren C.** Introductory Qualitative Analysis. Demy 8vo. Pp. ix + 155. (New York: The Macmillan Co., 1928.) 7*s.**

**Department of Scientific and Industrial Research:** Building Research. Bulletin No. 5: The Properties of Breeze and Clinker Aggregates and Methods of Testing their Soundness. By F. M. Lea. Roy. 8vo. Pp. iv + 17. (London: H.M. Stationery Office, 1928.) 6*d.* net.*

**Dubrisay, René.** Leçons sur la chimie générale. Roy. 8vo. Pp. vi + 246. (Paris: Gauthier-Villars et Cie, 1928.) 45 francs.*

**Euler, Hans v.** Chemie der Enzyme. Teil 2: Spezielle Chemie der Enzyme. Abschnitt 1: Die hydrolisierenden Enzyme der Ester, Kohlenhydrate und Glucoside. Bearbeitet von H. v. Euler, K. Josephson, K. Myrbäck und K. Sjöberg. Dritte, nach schwedischen Vorlesungen vollständig umgearbeitete Auflage. Pp. x + 474. (München: J. F. Bergmann, 1928.) 39.60 gold marks.

**Eynon, Lewis,** and **Lane, J. Henry.** Starch: its Chemistry, Technology and Uses; a Handbook for the Student, the Analyst, the Consultant and the Technologist concerned in the Manufacture and Application of Starch and Starch Products. Demy 8vo. Pp. viii + 256. (Cambridge: W. Heffer and Sons, Ltd.; London: Simpkin Marshall, Ltd., 1928.) 12*s.* 6*d.* net.

**Farnsworth, Marie.** The Theory and Technique of Quantitative Analysis. Med. 8vo. Pp. 162. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 12*s.* 6*d.* net.

**Flury, Ferdinand,** und **Zangger, Heinrich.** Lehrbuch der Toxikologie für Studium und Praxis. Bearbeitet von M. Cloetta, E. St. Faust, F. Flury, E. Hübener und H. Zangger. Pp. 500. (Berlin: Julius Springer, 1928.) 29 gold marks.

**Friend, J. Newton,** Edited by. A Text-book of Inorganic Chemistry. Vol. 11: Organometallic Compounds. Part 1: Derivatives of the Elements of Groups I. to IV. By A. E. Goddard and D. Goddard. Med. 8vo. Pp. 446. (London: Charles Griffin and Co., Ltd., 1928.) 25*s*. net.

**Gmelins** Handbuch der anorganischen Chemie. Achte völlig neu bearbeitete Auflage. Herausgegeben von der Deutschen Chemischen Gesellschaft. Bearbeitet von R. J. Meyer, System-Nummer 31: Radium und Isotope. Sup. Roy. 8vo. Pp. xviii + iv + 80. 15 gold marks. System-Nummer 21: Natrium. Sup. Roy. 8vo. Pp. xxxiii + 992. 150 gold marks. (Berlin: Verlag Chemie G.m.b.H., 1928.) *

**Gooch, Frank Austin,** and **Browning, Philip Embury.** Outlines of Qualitative Chemical Analysis. Sixth edition, revised. Ex. Cr. 8vo. Pp. viii + 206. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 8*s*. 6*d*. net.*

**Haworth, Walter Norman.** The Constitution of Sugars. Med. 8vo. Pp. vii + 100 + 2 plates. (London: Edward Arnold and Co., 1929.) 8*s*. 6*d*. net.*

**Heilbrunn, L. V.** The Colloid Chemistry of Protoplasm. (Protoplasma-Monographien, Vol. 1.) Med. 8vo. Pp. viii + 356. (Berlin: Gebrüder Borntraeger, 1928.) 19 gold marks.*

**Hlasiwetz, H.** Anleitung zur qualitativen chemischen Analyse. Siebzehnte Auflage von G. Vortmann. Pp. 54. (Leipzig und Wien: Franz Deuticke, 1928.) 1.60 gold marks.

**Holmyard, Eric John.** The Great Chemists. (The Great Scientists Series.) Fcap. 8vo. Pp. vi + 138. (London: Methuen and Co., Ltd., 1928.) 3*s*. 6*d*. net; School edition, 2*s*. 6*d*.*

**Jakob, J.** Anleitung zur chemischen Gesteinsanalyse. Pp. 81. (Berlin: Gebrüder Borntraeger, 1928.) 7 gold marks.

**Krantz, Jr., John C.** A Treatise on Pharmaceutical Chemistry: embracing certain Special Topics of Analytical, Organic and Physical Chemistry as they are related to Pharmacy. Med. 8vo. Pp. 282. (London: Henry Kimpton, 1928.) 15*s*. net.*

**Krycz, Ferdinand.** Chemische Kontrollmethoden und Verlustberechnung der Zuckerfabrikation. Pp. 234. (Leipzig: Max Jänecke, 1928.) 9.60 gold marks.

**Marsh, J. E.** The Origins and the Growth of Chemical Science. Cr. 8vo. Pp. x + 161 + 10 plates. (London: John Murray, 1929.) 5*s*. net.*

**Mines Department:** Safety in Mines Research Board. Paper No. 47: Pyritic Oxidation, with Special Reference to the Ravine Seam. By H. Macpherson, N. Simpkin and S. V. Wild. Roy. 8vo. Pp. 24 + 5 plates. 1*s*. 6*d*. net. Paper No. 48: The Relative Inflammability and Explosibility of Coal Dusts. By T. N. Mason and R. V. Wheeler. Roy. 8vo. Pp. 13 + 1 plate. 3*d*. net. (London: H.M. Stationery Office, 1928.) *

**Pierron, L.** Les procédés modernes de fabrication de l'acide sulfurique chambres de plomb. Pp. 944. (Paris: J.-B. Baillière et Fils, 1929.) 150 francs.

**Plotnikow, J.** Photochemische Versuchstechnik. Zweite, erweiterte, auf photomechanischem Wege hergestellte, Auflage. Med. 8vo. Pp. xvi + 454 + 3 Tafeln. (Leipzig: Akademische Verlagsgesellschaft m.b.H., 1928.)*

**Porter, C. W.** Molecular Rearrangements. Med. 8vo. Pp. 167. (New York: The Chemical Catalog Co., Inc., 1928.) 4 dollars.

**Reiner, Stefan.** Laboratoriumsbuch für die Kautschuk- und Kabelindustrie. Pp. 71. (Halle a. S.: Wilhelm Knapp, 1928.) 4.50 gold marks.

**Rippel.** Grundlinien der Chemie für Oberrealschulen und Realgymnasien. Teil 2: Organische Chemie. Fünfte und sechste umgearbeitete Auflage von Leopold Sternhagen. Pp. 149. (Leipzig und Wien: Franz Deuticke, 1928.) 4 gold marks.

**Schenk, D.** Pharmazeutisch-chemisches Praktikum: Herstellung, Prüfung und theoretische Ausarbeitung pharmazeutisch-chemischer Präparate: ein Ratgeber für Apothekerpraktikanten. Zweite verbesserte und erweiterte Auflage. Pp. 223. (Berlin: Julius Springer, 1928.) 10 gold marks.

**Smith, D. P., and Miller, H. K.** An Introduction to Qualitative Chemical Analysis and the Related Chemical Principles. (International Chemical Series.) Ex. Cr. 8vo. Pp. xii + 275. (New York: McGraw-Hill Book Co., Inc.; London: McGraw-Hill Publishing Co., Ltd., 1928.) 11*s*. 3*d*. net.*

**Treadwell, F. P.,** Based on the Text of. Analytical Chemistry. Translated, enlarged and revised by William T. Hall. Vol. 2: Quantitative Analysis. Seventh edition. Med. 8vo. Pp. xiii + 848. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 30*s*. net.*

**Vail, James G.** Soluble Silicates in Industry. (American Chemical Society Monograph Series.) Med. 8vo. Pp. 443. (New York: The Chemical Catalog Co., Inc., 1928.) 9.50 dollars.

**Wagner, Alfred.** Die Parfumerieindustrie: Nachschlagebuch für den Parfümeur, Chemiker, Apotheker, Drogist und Seifenfabrikant, unter Berücksichtigung der gesamten Literatur und Patente. Pp. 596. (Halle a. S.: Wilhelm Knapp, 1928.) 26.50 gold marks.

**Wall, Otto A.** Handbook of Pharmacognosy. Revised by Leo Suppan. Fifth edition. Med. 8vo. Pp. 472. (London: Henry Kimpton, 1928.) 21*s*. net.*

**Ware, John C.** Essentials of Qualitative Chemical Analysis: with a Special Development of the Fundamental Theoretical Principles and their Applications in Modern Analytical Procedure. Med. 8vo. Pp. xii + 351. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 17*s*. 6*d*. net.*

**West, Clarence J.,** Edited by. Annual Survey of American Chemistry. Vol. 3: July 1, 1927, to July 1, 1928. Prepared under the Auspices of the Division of Chemistry and Chemical Technology, National Research Council. Published for National Research Council. Ex. Cr. 8vo. Pp. 395. (New York: The Chemical Catalog Co., Inc., 1928.) 3 dollars.*

**Willstätter, Richard.** Untersuchungen über Enzyme. Imp. 8vo. Band 1. Pp. xvi + 860. Band 2. Pp. xi + 861-1775. (Berlin: Julius Springer, 1928.) 124 gold marks.*

**Wolff, Hans.** Die natürlichen Harze. (Monographien aus dem Gebiete der Fett-Chemie, herausgegeben von K. H. Bauer, Band 10.) Pp. xvi + 379 + 4 Tafeln. (Stuttgart: Wissenschaftliche Verlagsgesellschaft m.b.H., 1928.) 28 gold marks.

## Technology

**Eibner, A.** Entwicklung und Wer[illegible] der Tafelmalerei. Pp. 195. (München: B. He[illegible]8.) 12 gold marks.

**Fox, Leonard M.** A Handbook for Oxy-Acetylene Welders. Second edition. Pp. 220. (London: Allen Liversidge, Ltd., 1928.) 3*s*. 6*d*.

**Kerekes, Frank.** Engineering Drawing Theory with Applications. Appendix: Engineering Lettering and Drafting. Roy. 8vo. Pp. 308. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 12*s*. 6*d*. net.

**Krows, Arthur Edwin.** Equipment for Stage Production: a Manual of Scene Building. (American Theatre Manuals.) Cr. 8vo. Pp. 152. (New York and London: D. Appleton and Co., 1928.) 5*s*. net.

**Lewis, C. T. Courtney.** The Story of Picture Printing in England during the XIX. Century: or Forty Years of Wood and Stone. Cr. 4to. Pp. xxxv + 405. (London: Sampson Low, Marston and Co., Ltd., 1928.) 63*s*. net.

**Littlejohns, Idalia B.** Prints and Patterns: Ornamental Patterns printed with Hand-made Tools. (Pitman's Craft for All Series.) Cr. 8vo. Pp. 90. (London: Sir Isaac Pitman and Sons, Ltd., 1928.) 2*s*. 6*d*. net.

**Noble, Edwin.** Animal Drawing and Anatomy. Med. 8vo. Pp. 118. (London: B. T. Batsford, Ltd., 1928.) 10*s*. 6*d*. net.

## Astronomy

**Bosler, Jean.** Faculté des Sciences de Paris: Cours d'astronomie. Tome 3: Astrophysique. Roy. 8vo. Pp. v + 723 + 47 planches. (Paris: Hermann et Cie, 1928.) 140 francs.*

**Flammarion, Camille.** Annuaire astronomique et météorologique Camille Flammarion pour 1929: exposant l'ensemble de tous des phénomènes célestes observables pendant l'année, avec revue astronomique et météorologique, notices scientifiques, tableaux et documents. 65e année. Cr. 8vo. Pp. 341. (Paris: Ernest Flammarion, 1929.) 12 francs.*

**McWilliams, J. A.** Cosmology: a Text for Colleges. Cr. 8vo. Pp. x + 243. (New York: The Macmillan Co., 1928.) 10*s*. 6*d*. net.*

**Rice-Oxley, M. K.,** and **Shearer, W. V.** Astronomy for Surveyors. Cr. 8vo. Pp. ix + 208. (London: Methuen and Co., Ltd., 1929.) 8*s*. 6*d*. net.*

**Roberts, Mrs. Isaac** (née Dorothea Klumpke). Isaac Roberts' Atlas of 52 Regions: a Guide to Herschel's Fields (avec texte anglais et texte français). Edition commemorating Isaac Roberts' Centenary (1829–1904). Imp. 4to. Pp. 44 + 61 plates. (London: Wheldon and Wesley, Ltd., 1928.) 42*s*. net.*

**Smart, W. M.** Catalogue of Photographic Proper Motions determined in the Years 1922–1927. (Cambridge Astronomical Observations, Vol. 26.) Roy. 4to. Pp. v + 100 + 9 plates. (Cambridge: At the University Press, 1928.) 10*s*. net.*

**Stuker, P.** Volkstümliche Himmelskunde. Roy. 8vo. Pp. iv + 333 + 5 Tafeln. (Leipzig: Wilhelm Engelmann, 1928.) 9 gold marks.

## Meteorology: Geophysics

**Air Ministry:** Meteorological Office. The Book of Normals of Meteorological Elements for the British Isles. Section 6: Normals of Relative Humidity. (M.O. 236, Section 6.) Roy. 8vo. Pp. 293-307. (London: H.M. Stationery Office, 1928.) 9*d*. net.*

**Air Ministry:** Meteorological Office. Geophysical Memoirs, No. 44: The Distribution of Mean Annual Maxima and Minima of Temperature over the Globe. By C. E. P. Brooks and Miss G. L. Thomas. (M.O. 307d.) Roy. 4to. Pp. 10 + 2 plates. (London: H.M. Stationery Office, 1928.) 1*s*. net.*

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**Thomson, J. Arthur.** The Culture Value of Natural History. (The British Science Guild: The Norman Lockyer Lecture, 1928.) Roy. 8vo. Pp. 16. (London: British Science Guild, 1928.) 1*s.**

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**Stern, William.** Psychologie der frühen Kindheit bis zum sechsten Lebensjahre. Fünfte überarbeitete und erweiterte Auflage. Pp. xv + 539 + 11 Tafeln. (Leipzig: Quelle und Meyer, 1928.) 12.80 gold marks.

**Sturt, Mary,** and **Oakden, Ellen C.** Matter and Method in Education. Cr. 8vo. Pp. xiv + 345. (London: Kegan Paul and Co., Ltd., 1928.) 7*s*. 6*d*. net.*

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**Hammer, Bernard W.** Dairy Bacteriology. Roy. 8vo. Pp. 486. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1929.) 25*s*. net.

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**Tanner, Fred W.** Practical Bacteriology: an Introduction to Bacteriological Technic. Med. 8vo. Pp. xiv + 235. (New York: John Wiley and Sons, Inc.; London: Chapman and Hall, Ltd., 1928.) 12*s*. 6*d*. net.*

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**Bailey, Dorothy,** and **Bailey, Kenneth C.** An Etymological Dictionary of Chemistry and Mineralogy. Demy 8vo. Pp. viii + 308. (London: Edward Arnold and Co., 1929.) 25*s*. net.*

**British Spas.** A Guide to British Spas and Climatic Health Resorts, 1929. By the Editor of the Health Resorts Section of the Medical Directory, with the assistance of the Medical Officer of Health and Medical Committees in the Localities; including Lists of Hotels, Hydros and other Residential Accommodation. Roy. 8vo. Pp. 108 + 12 plates. (London: J. and A. Churchill, 1929.) 1*s*. net.*

**Brown, George E.,** Edited by. The British Journal Photographic Almanac and Photographer's Daily Companion, with which is incorporated The Year Book of Photography and Amateurs' Guide and The Photographic Annual, 1929. Cr. 8vo. Pp. 800 + 63 plates. (London: Henry Greenwood and Co., Ltd., 1929.) 2*s*. net.*

**Denison, J. H.** Emotion as the Basis of Civilisation. Roy. 8vo. Pp. 568. (New York and London: Charles Scribner's Sons, Ltd., 1929.) 21*s*. net.

**Fraprie, Frank R.,** and **Wall, E. J.,** Edited by. The American Annual of Photography, 1929. Vol. 43. Cr. 4to. Pp. 240 + Adv. 68. (Boston, Mass.: American Photographic Publishing Co.; London: Sands, Hunter and Co., Ltd., 1928.) 7*s*. 6*d*.*

**Kuczynski, Robert R.** The Balance of Births and Deaths. Vol. 1: Western and Northern Europe. (The Institute of Economics of the Brookings Institution.) Cr. 8vo. Pp. xii + 140. (London: George Allen and Unwin, Ltd.; New York: The Macmillan Co., 1928.) 10*s*. net.*

**Medical Research Council.** Special Report Series, No. 126: Medical Uses of Radium; Summary of Reports from Research Centres for 1927. Roy. 8vo. Pp. 22 + 2 plates. (London: H.M. Stationery Office, 1928.) 1*s*. net.*

**Munby, Alan E.** School Laboratory Fittings. Roy. 8vo. Pp. vii + 88. (London: G. Bell and Sons, Ltd., 1929.) 7*s*. 6*d*. net.*

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**Royal Society.** Year-Book of the Royal Society of London, 1929. (No. 33.) Demy 8vo. Pp. v + 216. (London: Harrison and Sons, Ltd., 1929.) 7*s*. 6*d*.*

**Saunders, Kenneth.** Buddhism. (Benn's Sixpenny Library, No. 58.) Fcap. 8vo. Pp. 79. (London: Ernest Benn, Ltd., 1929.) 6*d*.*

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*Volumes marked with an asterisk have been received at "NATURE" Office.*

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**Bessière, G.** Le calcul intégral facile et attrayant. Deuxième édition. Ex. Cr. 8vo. Pp. viii + 214. (Paris: Libr. Dunod, 1928.) 15 francs.

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**Castelfranchi, G.** Fisica moderna. 8vo. Pp. x + 588. (Milano: Ulrico Hoepli, 1929.) 10 lire.

**Conrady, A. E.** Applied Optics and Optical Design. Part 1. Gl. 4to. Pp. ix + 518. (London: Oxford University Press, 1929.) 50*s*. net.*

**Curzon, H. E. J.** The Art of Arithmetic. Imp. 16mo. Pupil's Book 6. Pp. 96. 1*s*. 4*d*. Pupil's Book 7. Pp. 96. 1*s*. 6*d*. (London and Edinburgh: Thomas Nelson and Sons, Ltd., 1929.)

**Fettweis, Ewald.** Methodik für den Rechenunterricht: zum praktisch Gebrauch und zum Gebrauch in Vorlesungen und Übungen. (Volksschulmethodik in Einzeldarstellung, Band 9.) 8vo. Pp. 272. (Paderborn: Ferdinand Schöningh, 1929.) 4.20 gold marks.

**Flint, H. T.** Wave Mechanics: being one Aspect of the New Quantum Theory. (Methuen's Monographs on Physical Subjects.) Fcap. 8vo. Pp. ix + 117. (London: Methuen and Co., Ltd., 1929.) 3*s*. 6*d*. net.*

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**Geiger, Hans,** und **Scheel, Karl,** Herausgegeben von. Handbuch der Physik. Band 20: Licht als Wellenbewegung. Redigiert von Heinrich Konen. 4to. Pp. xv + 967. (Berlin: Julius Springer, 1928.) 86 gold marks.

**Gouard, E.,** et **Hiernaux, G.** Cours élémentaire de mécanique industrielle. Tome 3. Troisième édition. Ex. Cr. 8vo. Pp. iv + 248. (Paris: Libr. Dunod, 1928.) 15 francs.

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**Hoheisel, Guido.** Partielle Differentialgleichungen. (Sammlung Göschen, Band 1003.) Pott 8vo. Pp. 159. (Berlin und Leipzig: Walter de Gruyter und Co., 1928.) 1.50 gold marks.

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**Radon, Johann.** Zum Problem von Lagrange: Vier Vorträge gehalten im math. Seminar der Hamburg Universität (7-24 Juli, 1928). 8vo. Pp. 27. (Berlin und Leipzig: B. G. Teubner, 1928.) 2 gold marks.

**Ramsey, A. S.** Dynamics: a Text-Book for the Use of the Higher Divisions in Schools and for First Year Students at the Universities. Demy 8vo. Pp. xiii + 259. (Cambridge: At the University Press, 1929.) 10*s*. 6*d*. net.*

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**Eisner, F.** Widerstandsmessungen an umströmten Zylindern von Kreis- und Brückenpfeilerquerschnitt. (Mitteilungen der Preussischen Versuchsanstalt für Wasserbau und Schiffbau, Berlin, Heft 4.) Imp. 8vo. Pp. vi + 98. (Berlin: Julius Springer, 1929.) 10 gold marks.*

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**Jumau, L.** Étude résumée des accumulateurs électriques. Troisième édition. Roy. 8vo. Pp. vi + 326. (Paris: Libr. Dunod, 1928.) 58 francs.

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**Mechanical World** Electrical Pocket Book, 1929. Twenty-second Year. Fcap. 8vo. (London and Manchester: Emmott and Co., Ltd., 1929.) 1*s*. 6*d*. net.

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**Bauer, K. H.** Die trocknenden Öle. (Monographien aus dem Gebeite der Fett-Chemie, Band 11.) Pp. 354. (Stuttgart: Wissenschaftliche Verlagsgesellschaft m.b.H., 1928.) 27 gold marks.

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**British Chemicals,** their Manufacturers and Uses: being the Official Directory of the Association of British Chemical Manufacturers (Incorporated); containing a Full List of Members with a Classified List of British Chemicals and a Note of their Applications. Cr. 4to. Pp. 330. (London: Ernest Benn, Ltd., 1929.) 10*s*. 6*d*. net.*

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**Department of Scientific and Industrial Research:** Fuel Research. Technical Paper No. 21: The Assay of Coal for Carbonisation Purposes (Part 2). By J. G. King, C. Tasker and L. J. Edgcombe. Roy. 8vo. Pp. vi + 34 + 2 plates. (London: H.M. Stationery Office, 1929.) 1*s*. net.*

**Eggert, John.** Lehrbuch der physikalischen Chemie in elementarer Darstellung. Zweite verbesserte Auflage. Pp. 552. (Leipzig: S. Hirzel, 1929.) 25 gold marks.

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**Newitt, D. M.,** Edited by. Chemical Engineering and Chemical Catalogue: a Catalogue of Heavy and Fine Chemicals, Raw Material, Machinery, Plant and Equipment applicable to Production Industries, Standardised, Condensed and Cross-Indexed. Compiled with the co-operation of leading British Manufacturers. Fifth edition. Pp. 401. (London: Leonard Hill, Ltd., 1929.) 15*s*. net.

**Ober, Ernst.** Qualitative Analyse unter Berücksichtigung ihrer wichtigsten theoretischen Grundlagen. (Breitensteins Repetitorien, Nr. 36.) Fünfte neubearbeitete Auflage. Pott 8vo. Pp. 86. (Leipzig: Johann Ambrosius Barth, 1929.) 3.70 gold marks.

**Oeman, Erik.** Massanalytische Verfahren und deren Anwendung in Zellstoffabriken. Mit Anhang: Chemische Einwirkung der schwefeligen Säure auf organ. Stoffe in der Sulfitablauge. Übersetzt von W. Schmidt. Roy. 8vo. Pp. viii + 119. (Berlin: Verlag Hofmann, 1928.) 5 gold marks.

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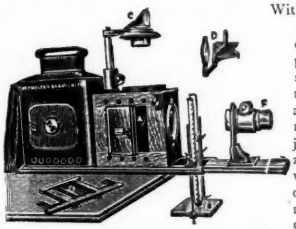

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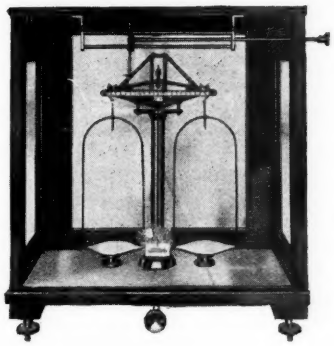

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*For continuation of Offici ertisements see p. ii of Sup at.*

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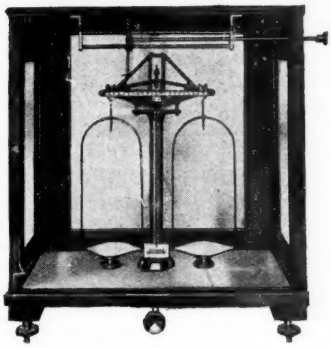

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F. J. HARLOW, Principal.

## UNIVERSITY OF LONDON.

### KING'S COLLEGE.

The Delegacy will require in September next, the services of an ASSISTANT LECTURER (woman) in the Department of Education. Salary £300 per annum. Candidates, who should possess a good honours Degree in Science and have had Secondary School experience, should send in their applications, accompanied by copies of three recent testimonials, not later than Tuesday, July 2, 1929, to the SECRETARY, King's College, Strand, W.C.2, from whom particulars and forms of application may be obtained.

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Grey Friars, Leicester. June 1929. WILFRID CARR, Secretary, Health Department.

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### CHAIR OF GEOLOGY.

The above Chair falls vacant on October 1, 1929, and the University Court proposes to consider the making of an appointment thereto on July 4 or later date.

Information regarding the Chair may be obtained on application to the SECRETARY OF THE UNIVERSITY COURT, the University, Glasgow.

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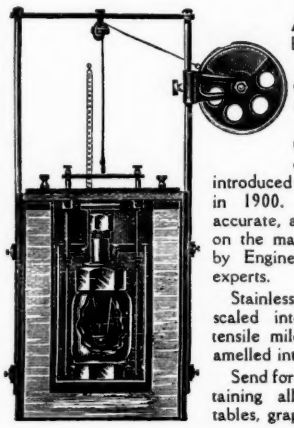

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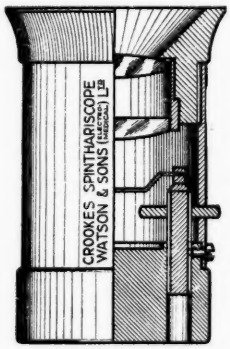


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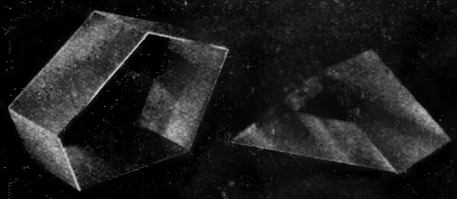

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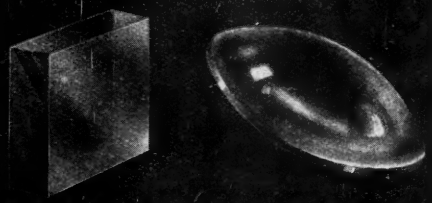

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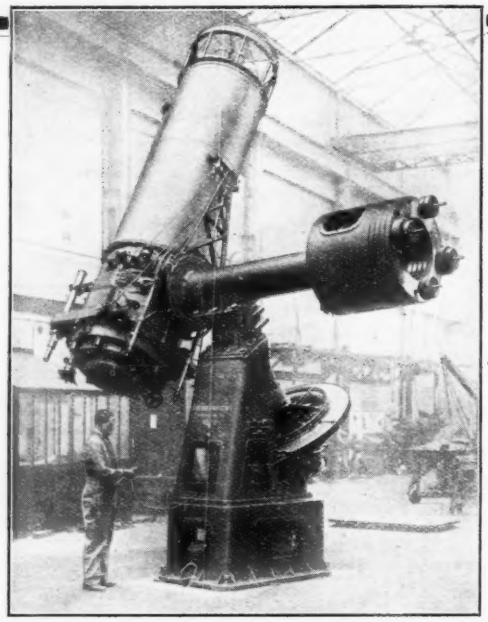

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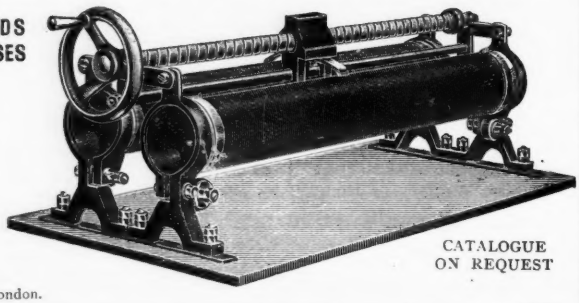

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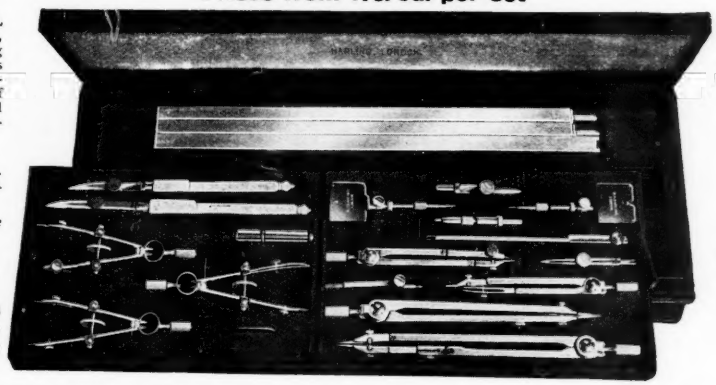

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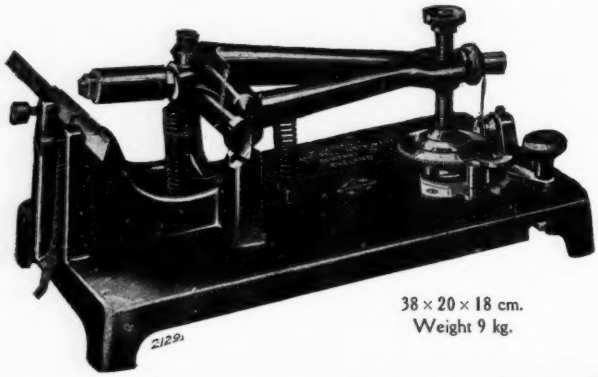

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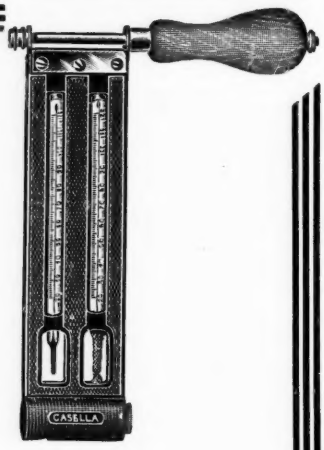


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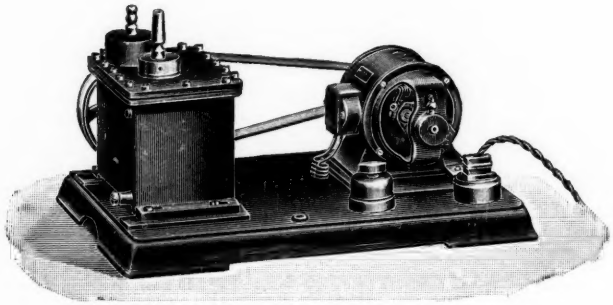

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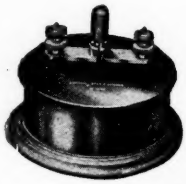

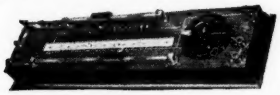

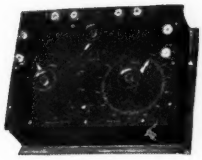

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